## IN THE CLAIMS

The following is a complete listing of the claims, and replaces all earlier versions and listings.

(Currently Amended) A method of transforming scrambling a digital signal, comprising the steps of: for it to be transmitted, the signal being decomposed decomposing the signal into several regions each containing digital data;

[[,]]

encoding the signal in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered; and ; wherein the method comprises a step of

modifying among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered.

(Currently Amended) A method according to claim 1, wherein
the digital data of the signal being are digital samples representing physical
quantities, and

the part of the header data representing the amplitude of the samples of the region considered provides a number of bitplanes according to which the amplitudes of the samples are encoded based on the difference between; on the one hand; (1) a number of

so-called reference bitplanes, depending on the signal and which is deduced from information present in the signal and on the other hand; (2) a number of zero bitplanes which is contained in [[said]] the part of the header data.

- (Currently Amended) A method according to claim 2, wherein the modification step provides said modifying step includes providing for modifying the number of zero bitplanes.
- (Currently Amended) A method according to claim 3, wherein the modification step provides said modifying step includes providing for increasing the number of zero bitplanes.
- (Currently Amended) A method according to claim 1, wherein the modification said modifying step makes includes making use of at least one transformation key Ku.
- (Currently Amended) A method according to claim 5, wherein the transformation key Ku depends on [[said]] the at least one region considered.
- (Currently Amended) A method according to claim 5, wherein the modification said modifying step involves in particular the generation of a pseudo-random sequence based on the transformation key Ku.

- (Currently Amended) A method according to claim 5, wherein it comprises further comprising a step of transmitting the transformation key Ku.
- (Currently Amended) A method according to claim 1, wherein it
   comprises further comprising a step of transmitting the signal so transformed scrambled.
- 10. (Currently Amended) A method of transforming descrambling a digital signal decomposed into a plurality of regions each containing digital data, the signal being encoded in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered, wherein the method comprises comprising the following steps of:
- [[-]] receiving the signal of which the part of the header data representing the amplitude of the data of at least one region has undergone a modification before transmission of [[said]] the signal; and [[,]]
- [[-]] modifying in reverse [[that]] the modified part of the header data in order to restore [[said]] the unmodified part of the header data of the signal.
- (Currently Amended) A method according to claim 10, wherein
  the digital data of the signal being are digital samples representing
  physical quantities, and

the part of the header data representing the amplitude of the samples of the region considered provides a modified number of bitplanes according to which the amplitudes of the samples are encoded based on the difference between; on the one hand,

- (1) a number of so-called reference bitplanes, depending on the signal and which is deduced from information present in the signal and, on the other hand, (2) a modified number of zero bitplanes which is contained in [[said]] the part of the header data.
- 12. (Currently Amended) A method according to claim 11, wherein the <u>said</u> step of reverse modification <u>modifying</u> provides for modifying the modified number of zero bitplanes.
- 13. (Currently Amended) A method according to claim 12, wherein [[the]] said step of reverse modification modifying provides for reducing the modified number of zero bitplanes.
- 14. (Currently Amended) A method according to claim 10, wherein [[the]] said step of reverse modification modifying makes use of at least one transformation key Ku.
- 15. (Currently Amended) A method according to claim 14, wherein the transformation key Ku depends on [[said]] the at least one region considered.
- 16. (Currently Amended) A method according to claim 14, wherein [[the]] said step of reverse modification modifying involves in particular the generation of a pseudo-random sequence based on the transformation key Ku.

- 17. (Currently Amended) A method according to claim 14, wherein it comprises further comprising a prior step of receiving the transformation key Ku.
- 18. (Currently Amended) A device for transforming scrambling a digital signal, for it to be transmitted, the signal being decomposed comprising:

means for decomposing the signal into several regions each containing digital data; [[,]]

means for encoding the signal in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered; and , wherein the device comprises

means for modifying, among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered.

19. (Currently Amended) A device according to claim 18, wherein the digital data of the signal [[being]] are digital samples representing physical quantities, and

the part of the header data representing the amplitude of the samples of the region considered provides a number of bitplanes according to which the amplitudes of the samples are encoded based on the difference between; on the one hand; (1) a number of so-called reference bitplanes, depending on the signal and which is deduced from information present in the signal and; on the other hand; (2) a number of zero bitplanes which is contained in [[said]] the part of the header data.

- (Currently Amended) A device according to claim 19, wherein [[the modification]] said modifying means modify the number of zero bitplanes.
- 21. (Currently Amended) A device according to claim 20, wherein [[the modification]] said modifying means increase the number of zero bitplanes.
- 22. (Currently Amended) A device according to claim 18, wherein [[the modification]] said modifying means make use of at least one transformation key Ku.
- 23. (Currently Amended) A device according to claim 22, wherein the transformation key Ku depends on [[said]] the at least one region considered.
- 24. (Currently Amended) A device according to claim 20, wherein it comprises <u>further comprising</u> means for generating a pseudo-random sequence based on the transformation key Ku.
- 25. (Currently Amended) A device according to claim 22, wherein it comprises further comprising means for transmitting the transformation key Ku.
- (Currently Amended) A device according to claim 18, wherein it
   comprises further comprising means for transmitting the signal so transformed scrambled.

- 27. (Currently Amended) A device for transforming descrambling a digital signal decomposed into a plurality of regions each containing digital data, the signal being encoded in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered, wherein the device comprises comprising:
- [[-]] means for receiving the signal of which the part of the header data representing the amplitude of the data of at least one region has undergone a modification before transmission of [[said]] the signal; and [[,]]
- [[-]] means for reverse modification of that modifying the modified part of the header data in order to restore [[said]] the unmodified part of the header data of the signal.
- 28. (Currently Amended) A communication apparatus, wherein it comprises comprising a device for transforming scrambling a digital signal according to claim 18.
- 29. (Currently Amended) A communication apparatus, wherein it comprises comprising a device for transforming descrambling a digital signal according to claim 27.
- 30. (Currently Amended) An information storage means which can be read by a computer or a microprocessor containing code instructions of a computer program for

executing the steps of [[the]] a method of transforming scrambling a digital signal, according to claim 1 the method comprising the steps of:

decomposing the signal into several regions each containing digital data;

encoding the signal in a format comprising header data specific to each

region and which comprise at least one part representing the amplitude of the data of the
region considered; and

modifying among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered.

31. (Currently Amended) An information storage means which can be read by a computer or a microprocessor containing code instructions of a computer program for executing the steps of [[the]] a method of transforming descrambling a digital signal according to claim 10 decomposed into a plurality of regions each containing digital data, the signal being encoded in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered, the method comprising the steps of:

receiving the signal of which the part of the header data representing
the amplitude of the data of at least one region has undergone a modification before
transmission of the signal; and

modifying in reverse the modified part of the header data in order to restore the unmodified part of the header data of the signal.

32. (Currently Amended) A partially or totally removable information storage means which is readable by a computer or a microprocessor containing code instructions of a computer program for executing the steps of [[the]] a method of transforming scrambling a digital signal, the method comprising the steps of: according to claim!

decomposing the signal into several regions each containing digital data;

encoding the signal in a format comprising header data specific to each

region and which comprise at least one part representing the amplitude of the data of the
region considered; and

modifying among the header data specific to at least one region of the signal, the part of the header data representing the amplitude of the data of the region considered.

33. (Currently Amended) A partially or totally removable information storage means which is readable by a computer or a microprocessor containing code instructions of a computer program for executing the steps of [[the]] a method of transforming descrambling a digital signal according to claim 10 decomposed into a plurality of regions each containing digital data, the signal being encoded in a format comprising header data specific to each region and which comprise at least one part representing the amplitude of the data of the region considered, the method comprising the steps of:

receiving the signal of which the part of the header data representing the amplitude of the data of at least one region has undergone a modification before transmission of the signal; and

modifying in reverse the modified part of the header data in order to restore the unmodified part of the header data of the signal.

- 34. (Currently Amended) A computer program <u>stored in a computer-readable medium</u> which can be loaded into a programmable apparatus, wherein it contains <u>containing</u> sequences of instructions or portions of software code for implementing the steps of the method of <u>transforming scrambling</u> a digital signal according to claim 1, when [[this]] <u>the</u> computer program is loaded and executed by the programmable apparatus.
- 35. (Currently Amended) A computer program stored in a computerreadable medium which can be loaded into a programmable apparatus, wherein it contains containing sequences of instructions or portions of software code for implementing the steps of the method of transforming descrambling a digital signal according to claim 10, when [[this]] the computer program is loaded and executed by the programmable apparatus.